

# Abstract

<sup>A</sup> ~~The invention relates to a method~~ <sup>is described</sup> for communication among  
1 ~~equal-access stations (2, ..., 12)~~ of a ring-shaped, serial  
A  
5 fiber-optic bus and to a device for carrying out this  
communications method. <sup>One</sup> ~~According to the present invention, one~~  
A station ~~(2)~~, during a bus cycle, generates container messages  
A ~~(CT)~~ in a strictly time-cyclical manner, addresses them, and  
A provides them to the serial bus, and it transmits a  
10 synchronization message at the end of the bus cycle time, each  
station ~~(2, ..., 12)~~ writing its data into container messages  
A ~~(CT)~~ that are addressed to it, and each station ~~(2, ..., 12)~~,  
A depending on its read authorization, reading the container  
A messages ~~(CT)~~ of the serial bus, all the data that have been  
15 read in the stations ~~(2, ..., 12)~~ being imported with the  
assistance of the synchronization message. Thus, equal-access  
stations of a ring-shaped, serial fiber-optic bus can exchange  
data, in direct-access, extremely quickly and in a strictly  
time-cyclical manner.

20 ~~Figure 1~~